PROJECT REPORT ON BIOCOAL BRIQUETTES

OF

M/S. SIDDHI ENTERPRISES

Prepared by: - Amplus Subsidy Solutions

Contents:

1. Introduction:

Biomass briquettes are a biofuel substitute to coal and charcoal. Briquettes are mostly used in the developing world, where cooking fuels are not as easily available. There has been a move to the use of briquettes in the developed world, where they are used to heat industrial boilers in order to produce electricity from steam. The briquettes are cofired with coal in order to create the heat supplied to the boiler when the higher heat is needed.

Bio Coal Briquetting is the process of converting agricultural waste into high density and energy concentrated fuel briquettes. Bio Coal Briquetting plants are of various sizes which converts agricultural waste into solid fuels. Briquettes are ready substitute of Coal/wood in industrial boiler and brick kiln for thermal application. Bio Coal briquettes are Non-conventional Source of energy, renewable in nature, Eco friendly, nonpolluting and economical.

This project is a project of manufacturing of Briquettes from any agro waste, bio mass and bio waste. In this project, we intend to import and install a new technology from abroad, with the help of which, we will be able to produce smoke less coal briquettes made from all types of agro waste and biomass waste which currently are not used in conventional briquettes.

2. Technical Aspects & Production:

Biomass briquettes, mostly made of green waste and other organic materials, are commonly used for electricity generation, heat, and cooking fuel. These compressed compounds contain various organic materials, including rice husk, bagasse, ground nut shells, municipal solid waste, and agricultural waste. The composition of the briquettes varies by area due to the availability of raw materials. The raw materials are gathered and compressed into briquette in order to burn longer and make transportation of the goods easier. These briquettes are very different from charcoal because they do not have large concentrations of carbonaceous substances and added materials. Compared to fossil fuels, the briquettes produce low net total greenhouse gas emissions because the materials used are already a part of the carbon cycle andnothing new is introduced in the cycle.

One of the most common variables of the biomass briquette production process is the way the biomass is dried out. Manufacturers can use torrefaction, carbonization, or varying degrees of pyrolysis. Researchers concluded that torrefaction and carbonization are the most efficient forms of drying out biomass, but the use of the briquette determines which method should be used. Basically, this is a physical process of percussion to be carried out. The process is a continuous type having a small pressure Ram which continuously ramming the raw material through the die, resulting into compressed briquettes.

Here, it is intended to introduce a new technology which is prevailing in the world market, but it is not yet used in India. It is a technically improved technology giving smokeless coal at lower cost and better results out of the bio waste. In India, the major used material for briquettes is Baggasse while, with this machine agro waste such as dried plants, leaf waste of sugar cane and other crops can be used for briquettes.

Every year millions of tons of agricultural waste are generated. These are either none used or burnt inefficiently in their loose form causing air pollution. Handling and transportation of these materials is difficult due to their low bulk density. These wastes can provide a renewable source of energy by converting into high-density fuel briquettes without addition of anybinder. The demand of energy is increasing day by day and the supplies of sources are limited. The renewable energy project is ideal for the agricultural based countries like India, Sri Lanka, Pakistan and African Countries as there are a huge availability of agro-forestry waste. And it is very good in industrial based countries.

Details of Business	
Name of the firm	**M/s. Siddhi Enterprises**
Name of the Partners	Mrs. Ekta Shrenik Sabadra Mrs. Pratiksha Rushabh Sabadra
Pan Card Number	AETFS1810B
Established Year	2022
Register Address	7, Sumangal Builder House, Sadhu Vaswani Road, Holaram Colony, Near MICO Circle, Nashik-422002.
Type of Industry	Manufacturing of Bio coal Briquettes
Constitution of Business	Partnership Firm
Address of proposed site	Plot No. T-49&T-50, Nardana Phase-II, Industrial area, Shindkheda, Dhule.
Capacity	1000 MT
Title of Property	On MIDC Lease
Products and Services	• Bio Briquettes
Total Project Cost	22 Crores
Experience	20-25 years

M/S. Siddhi Enterprises is being promoted as a Partnership Firm of Mrs Ekta Shrenik Sabadra W/O Shrenik Sabadra R/O Nashik. & Mrs. Pratiksha Rushabh Sabadra. The unit will be engaged in the storage and production of Bio coal Briquette. This unit will meet the requirement of growing demand in region.So far as the management is concerned, it will be in the hands of the promoter himself but for day to day activity experienced staff will be employed.

Considering these aspects, it can be safely assumed that the Partners will not face any difficulty in implementing its manufacturing plant, as well as running it smoothly.

3. Partner's Profile:-

Mrs. Ekta Shrenik Sabadra:

Mrs. Ekta Shrenik Sabadra W/O Shrenik Sabadra. She is 1st Partner of the Siddhi Enterprises. She is Post Graduate and having sound Business Knowledge with hand on experience of 7 years. She is well aware about waste management ustainable practices. She has developed the network of almost 250 farmers in the vicinity and running one existing small Bio coal Manufacturing unit in Nashik District. She is responsible for day to day activities as well as finance, Operations and business. She is Dynamic Lady to handle a complete management of this business.

Mrs. Pratiksha Rushabh Sabadra:

Mrs. Pratiksha Rushabh Sabadra is a 2nd Partner of Siddhi Enterprises. She is having more than 5 years of experience and currently handles mainly the finance part of various other Business in family. She is very good at Administration and Management of this business. Currently she handles the team is more than 20 people.

4) Location & its Selection :-

India has the second largest population in the world that makes it second largest consumer of goods. So, this indicates that India has huge market potential because of which India has become a focal point for many world economies. Because of that the demand in the Agricultural Sector has always been on the higher side. With lot of New Products coming in this sector, the demands shall always be on the higher side.

Dhule- is a taken a shape of a Fast- Developing Industrial Centre. The kind of initiatives taken by the State Government has augmented the growth of this city. After completing the full phase of development in the cities like Mumbai, Nashik, Pune now it's the turn of Dhule to churn the wheels of Development.

The overall Industrial base of Dhule is divided into 2-3 parts. All big Industrial houses of India have got their presence in Dhule, like Nardana Industrial Area.

The Industrial base is scattered and has presence of nearly all the sectors. Many new ventures like Multi Product SEZ are coming to augment the future growth.

Some of the crucial benefits of Initiating a business venture in Nardana, Dhule can be briefly outlined as below: -

1) Availability of Resources as desired.
2) Skilled and Unskilled labor at competitive rates.
3) Industry favorable incentives by the government.
4) Stable local political environment.
5) Nearness to Mumbai , Pune and Nashik.
6) Good Infrastructure and connectivity to major places.

Dhule has got accessibility from major cities like Mumbai, Pune, Nashik. So the demand for many products from such cities can be easily catered.

The Unit is proposed to be situated at **NARDANA MIDC, TAL SHINDKHEDA, DIST. DHULE**. Thebenefits to be obtained are as below:

1) Easy Connectivity with major cities like Nashik, Mumbai, Pune etc.
2) Beneficial and Supporting Government Policies.
3) Availability of Sources such as Electricity, Power etc.
4) Labours and Technical staff are easily available at reasonable rates.
5) Good Surrounding of overall Industrial Area.
6) Nardana is fast growing industrial area in Dhule City.

5) List of Raw Materials & Finished Products :-

Yearly and as per the seasons and availability and projected tie-ups with Farmers. We are proposing to procure the below raw material for primary processing a bio Briquettes.

Sr. No.	Raw Material Approx	Quantity K cal/Kg
1	Bark (Wood)	3900
2	Bagasse (Suger Cane)	4200
3	Bamboo Dust	3700
4	Cotton Stalk	3800
5	Coir Pitch	4000
6	Maize Stalks	3800
7	Pine Niddles	4000
8	Rice Husk	3500
9	Rice Straw	3500
10	Sar Khanda Grass	3700
11	Coffee Husk	4200
12	Ground Nut Shell	4000
13	Castor Seed Shell	4000
14	Jute Waste	4500
15	Mustard Husk	4500
16	Suger Mill Waste	3300
17	Suger Cane Trash	3500
18	Wheat Straw	3700
19	Arhar Stalik	4000
20	Saw Dust	4000
21	Heavy Furnace Oil	9900
22	Kerosene	8900
23	Diesel	9400
24	LPG	9400
25	Coal Grade ‘b’	5000
26	Coal Grade ‘c’	4500
27	Fire Wood	3300
28	Char Coal	6000
29	Calorific Value Of Briquette “White Coal”	4000

Description Of Raw Material:-

- Size Of Raw Material : 0 to 25 MM

raw material size is bigger than 25 MM, It is require to cut using cutter or chopper.

- Moisture Content : 08% to 12%

If Moisture Content higher than 12%, It is require to dry using Dryer

Major Raw Material available:

Groundnut shell	Bamboo Dust	Saw dust	Cotton Flowers	Mustered Waste
Sugercane Bagasses	Sugercane Trash	Cotton Stalk	Tobacco lsacsz	Soyabean Waste
Rice Husk	Rice Straw	Coir Pitch	Macodana Shell	Kang Husk
Mustard Waste	Castor seed	Coffee Husk	Cumin Waste	Tamarind Shell
Wood Chips	Sunflower Husk	Forest Tree Leaves	Almond Shell	Castor Shell
Turmeric Powder	Pencil Waste	Corn Waste	Betel Nut Shell	Rotten Wheat
Cotton Pods	Green Piece Shell	Corn Shell	Corn Mealie	Sugercane Waste Pitch
Coconut Husk	Eucalyptus Waste	Casuarina Branch	Coconut Coir	Pine Needles
Cotton Seeds Waste	Palm Rosa Stalk	Sesame Stalk	Cotton Stalk	Coconut Leaves
Water Highsion	Sun Flower Seeds	Baggasse	Soya bean husk	Sawdust

Where Final Product Can Apply

- Brick Kilns
- Rubber Industry
- Ceramic Units
- Laminates Industries
- Paper Mills
- Dying House
- Spinning Mills
- Vegetable Plant
- Solvent Extraction Plants
- Textile Mills
- Chemical Plants Food Processing unit
- Bakery Industry
- Dryer & ovens For Generation of Hot air
- Leather Industry

List of Finished Products

Sr.No.	Finished Product	Quantity/ day	Quantity / Annum
1.	Biomass Briquettes	1,000 MT	3.25 Lakh MT

6) Market Demand & Analysis:-

It has been found that several alternative energy sources has come up, among them utilization of agricultural residues, forest residues, municipal garbage into valuable solid fuel is one which is one of the modern and latest concept which has come up to meet the growing demand of fuel. Its demand will definitely rise with rapid industrialization in the coming future. So a new entrepreneur can well venture into this field by fully assessing the fuel requirement by different small, medium and large scale industries. The new prospective and decisive entrepreneurs can well venture by installing a unit of biocoal manufacturing to satisfy present and future demand.

There are no such projects around as we are bringing some new technology from abroad.The technology which is used in India, is a basic technology of mechanical pressing which uses ahuge rammer with heavy power, but this new technology consists of percussion process, which enables to produce smokeless coal briquettes with half power consumption and smaller area.

Thus, we can see an immense demand for our product. We intend to target the textile industry for marketing situated in the nearby town of Shirpur, Malegaon, Dhule, where the daily demand of the firewood is more than 200 truckloads. Thus, we can see that, the supply against the demand is less which denotes, that we may have a huge opportunity to develop the supply chain.

7) Details of the products with capacity

Basic Project Assumption

Installed capacity	**1000 Metric tons of storage andPacking facility per day on rotational bases.**
Working hours per day	**18 hours**
Working days per annum	**320 days**
Capacity utilization	**Year-1-50%, Year-2-55%, Year-3-60%, Year-4-65%, Year-5-70%, Year-6-80%**

waste of 5%	
Consumables and Packing	Rs.10 per Quintal
Power & fuel charges	Rs.20.50 lakhs per annum at 100%capacity utilization
Manpower	Rs.25.0 lakhs per annum
Other manufacturing expenses-Repairs and maintenance	Rs.10.20 lakhs per annum with annual increase
Depreciation	On written down value method
Administrative expenses-Rent,Travelling, Telephones, Printing & stationery, Courier Miscellaneous office expenses	Rs.2.00 lakh per month with normal annual increase
Selling Expenses-Marketing, Advertisements and sales promotion expenses	5% on sales value
Interest on Term loan	11% per annum
Interest on working capital	11% per annum
Income tax	30% on profits

8. Cost of Project & Means of Finance:-

Cost of the Project

Rs. in Lakhs

S.No.	Particulars	Total
1	Leasehold Land from MIDC Admeasuring 2 Acres	50 .00
1.	Construction of Factory building	550.00
2.	Main Plant & Machinery Imported/**indigenous**	1500.00
3.	Pre-operative Exp.	100.00
	Total	**2200.00**

Means of Finance:

The proposed cost of project is proposed to be financed by following means:

S.No	Particulars	Amount
1.	Promoter's Contribution	660.00
2.	Term Loan	1540.00
3.	Working Capital	0.00
	Total	**2200.00**

The constituents of Cost of Project are explained below:

a) Leasehold Land from MIDC Admeasuring 2 Acres

We are proposing the set-up the uses of agro waste, bio waste with the help of latest technology it required 2 acres land at estimated cost of Rs. 50.00 Lakhs including Land Development.

b) Construction of factory building

To install the new technology from abroad with all infrastructure of our company will be constructing new factory building at Nardana MIDC (Phase II) Shidkheda, Dhule. The details are as under:

Rs. Lakhs

Sr.No.	Purpose	Area (Sq. Mt)	Cost
1.	Main Factory Building	4000	250.00
2.	Raw Material Storage	1500	70.00
3.	Other Infrastructure (Internal road, Parking etc.)	1500	50.00
4.	Open Space	3000	180.00
	Total Area	**10000**	**550.00**

The construction of factory building will commence from July 2024 simultaneously with placing of orders for machineries.

c) Main Plant & Machinery:

- **<u>Complete Cost of Machinery</u>**

(In lakhs)

Sr.No.	Particulars	Quantity	Total
1	Briquetting Press	08	560.00
2	Chaff Cutter	07	280.00
3	Weigh Scale & Weighing Bridge	1	110.00
4	Packing Machine	10	250.00
5	Flash Air Dryer	2	100.00
6	Cusher Cutter combo	05	130.00
7	Other Material Handling Equipment's		70.00
	Total		**1500.00**

d) <u>Power Required & Electrification</u>

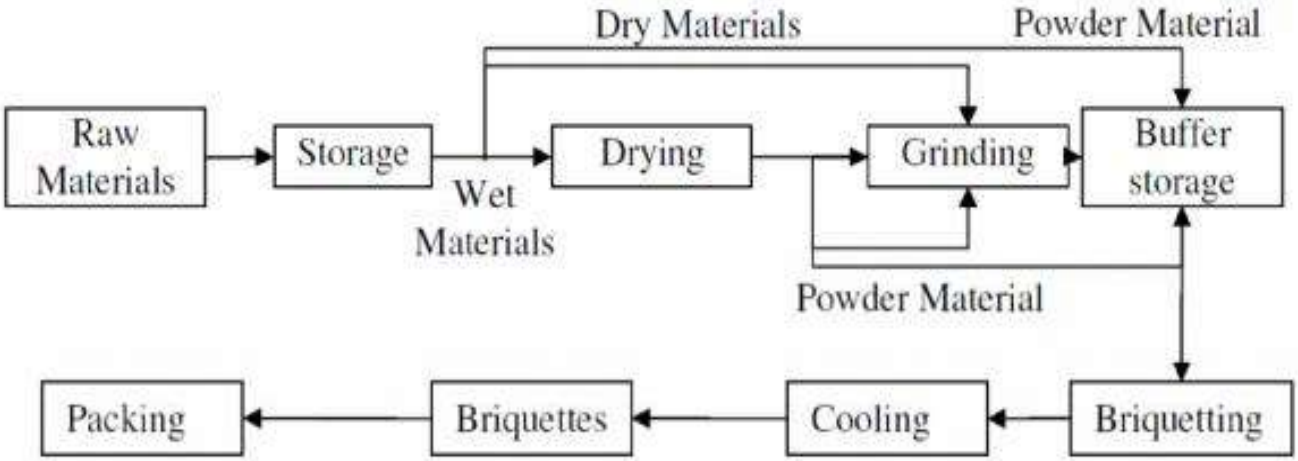
As this shall be the developed MIDC exclusively for Industrial Units therefore uninterrupted Electricity shall be available from Local MSED Station which is nearby. We shall apply to MSEB department for Transformer of **540 KV** at our proposed location. Since all the Machinery are expected to run simultaneously thus a connected load of around **780 KV** will be required. We are also looking for renewable sources to reduce our cost of Electricity however the installed Technology is energy Efficient and consumes less Electricity than traditional Machines.

e) Water Budget:

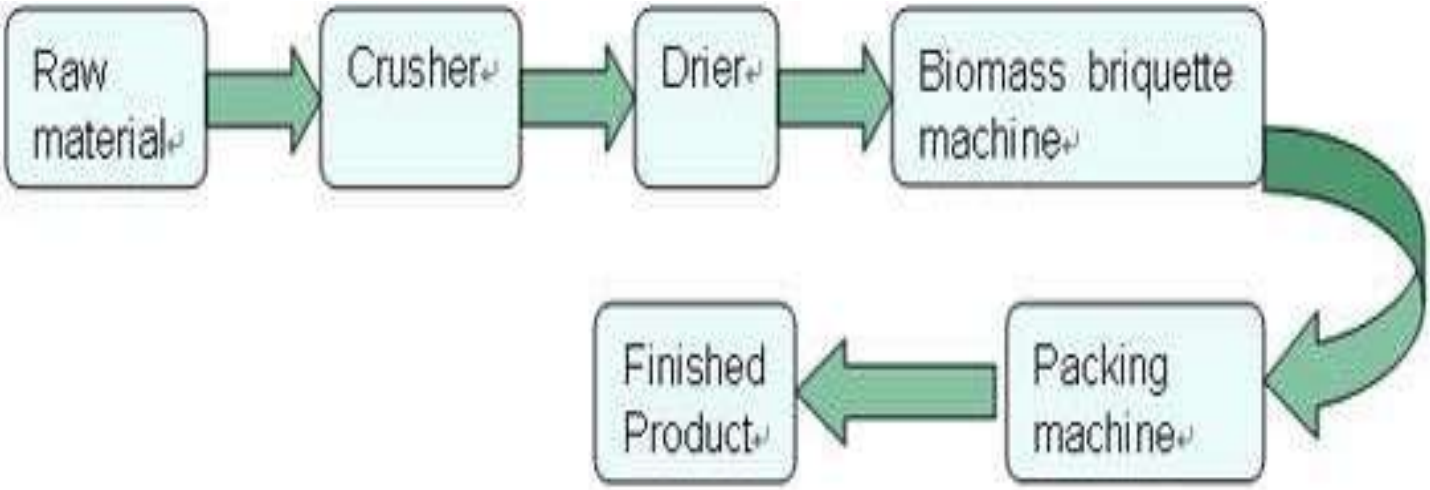
Bio Coal Briquetting activity requires less water however major consumption of water shall be for washing, Cleaning and other domestic purposes only

Sr.No.	Purpose	Consumption (Liters Perday)
1	Industrial Purpose	10,000
2.	Domestic Purpose	10,000
3.	Others for Spraying & Cooling Down etc.	4,000
	Total	**24,000**

f. MANUFACTURING PROCESS FLOW:



Flow Diagram of Biomass Briquette Production



g) Employment & Human Resource :

As Nardana is a fast growing industrial hub. The Proposed Project Location is 34Km away From Dhule City which shall easily enable us to get the desired manpower. The Local Sourcing and employment opportunity will be available in and around Vinchur for their daily livelihood.

The details are as under:

Sr.No.	Particulars	Female	Male	Total
1.	Managers	03	05	08
2.	Skilled Labours	10	20	30
3.	Unskilled Labours	02	10	12
	Total	**15**	**35**	**50**

9. IMPLEMENTATION SCHEDULE:

Sr. No.	Particulars	Commencement	Completion
1.	Construction of Factory Building	June -2024	Feb-2025
2.	Main Plant & Machinery		
	- Placement of orders	July-2024	Dec -2024
	- Delivery of machineries	Sep -2024	Nov – 2024
	- Installation	Nov-2024	Dec -2024
3.	Utilities & Other Ancillary Machineries		
	- Placement of orders	Sept-2024	December-2025
	- Delivery of machineries	June-2024	Jan-2025
	- Replacement & Installation	July-2025	Feb-2026
4.	Electrical installations and erections	Oct-2024	Dec -2024
6.	Trial Runs	Mar-2025	
7.	Commercial Production	April-2025	

10. FINANCIAL ANALYSIS

A. Repayment Schedule

Interest during implementation period

The interest on proposed term loan is calculated @ 11%. The ROI so assumed is without considering the effect of Grants

Contingencies

The contingencies have been estimated to cover any increase in cost due to forex fluctuations or any escalation in prices of other components of cost of Project.

1. Partners' Contribution

The promoter's contribution will be 30.00% of total cost of project which comes to Rs.660 Lakh in form of Equity capital, internal accruals and quasi capital.

2. Term Loan under

The cost of project is proposed to be part financed by way of term loan of Rs. 70% . The term loan will be drawn over implementation period. Further, the company will be requiring one time LC (ILC/FLC) facility of Rs.1540 Lakhs as a sub limit to term loan for procuring machines

Moratorium Period

Moratorium period of 12 months from 1st disbursement is proposed owing to the fact that installation of machineries, construction of sections, construction of godowns etc. will take approx. 21 months. Also, stabilization of operations will take further time of 3 months.

Repayment Schedule

The term loan is proposed to be repaid in 84 equal monthly installments after a moratorium of 12 months from first disbursement. 1st installment is proposed to fall due in June-2024.

11. STATUTORY COMPLIANCES

Environment Clearances from MPCB: MaharashtraPollution Control Board

- **Consent to Establish**
- **Consent to Operate**

a) Udyam Registration

b) DISH: Directorate of Industrial Safety & Health (Govt of Maha)

- **Plan Approval from Safety Point of View**
- **Factory License**

c) Import & Export Code No:

d) GST Registration No.:

e) Employment Provident Fund Registration will be taken for permanent employees once the Employees are of board post before commencement of Production by doing the Employer Contribution

f) <u>Building Plan Approval & Completion:</u>

We shall immediately appoint an Architect, Engineers & Civil Contractor to Start with the Construction work and desired permission will be granted from Corporation by following applicable norms.

Our Company shall follow all the statutory compliances & required Licensesas decided by Government from time to time. This shall benefit us to run the company without any hassle and last minute ad hoc.

12. SWOT ANALYSIS

S.W.O.T Analysis Strength:

- Adding value to the Agro Waste.
- Readily available Plenty of Raw Material at Zero Cost
- High technology machinery is used.
- The unit is having advantage of Fast growing industrial area.
- A financial strong promoter and having diversified business interest.
- Proposed unit is eligible for various government subsidies.
- Advantage of Co-operative Farmers & Additonal Income for Farmers

Weakness:

- Can be affected by slowdown of farming activities
- Crop Yield decrease
- Less Awareness of Agro- Waste Management amongs Farmers

Opportunity:

- Best smokeless coal briquettes with half power consumption it gives good market and on high demand.

- Indian economy is now stabilizing and now more importance isgiven to economical, eco-friendly and alternate fuel option.

Threats:

- Increasing Competition
- Stubble Burning

13. GOVERNMENT SUBSIDY BENEFITS TO THE PROJECT

Since the unit is situated in **D+ zone** as per the package scheme of incentives 2019, the following government subsidy is available to the proposed Industry Under the package scheme of incentives 2019. which is eligible for the Capital subsidy.

A) Directorate of Industries

Unit will be eligible for a basket of incentives the total quantum of which will be linked to the Fixed Capital. This 70 % of benefits will be received in 10 years.

Additional Incentives of Special Womens Policy -2017 as the Promoters 100% Women

B) Biomass Programme from Ministry of New & Renewable Energy (GoI)

Capital Subsidy shall be applicable for the Eligible Technology Upgraded Machines installed in our Project upto Rs.45 Lakhs for Pallet and Briqquets Manufacturing Plant.

14. CONCLUSION & FEASIBILITY:

 Consistent Market Demand has logically developed thrust to come with Green Field Project

 Available Raw Material & Manpower shall make the project more productive in coming years.

 Considering the Location of Nardana which is well connected with all means of transport shall regulate the supply chain of raw materials and finish goods in seamless manner.

 Employment Generation and Job Guarantee shall secure almost 50 Homes for their daily Bread and Butter.

 Farmers shall be benefited in Large which shall ensure Sustainable practices and stop Stubble burning which creates Pollution.

 Various incentive and government subsidy will be the added advantage to run the Proposed factory in 100% Capacity

 The Technology and proposed Machinery installed will be from Professional Experts & Consultants keeps the Project Unique from all other greenfield project.

 Promoters are financially sound hence the Banking relations and record are very well in nature thus finances are readily available for the proposed project.

 Similar waste Management goals is the Emerging tred in Domestice Market

 Land from MIDC with Plug and Play facility shall implement the project in minimal time.

Hence considering all the above points and detail study of the Proposed project. The project is very viable and feasible in every aspect. This immensely shall benefit all the stakeholders of the project.

Thank you..!

M/S. SIDDHI ENTERPRISES

CHAPTER II . SUMMARY OF PROJECT COST

PARTICULARS	AMOUNT
LAND	50,00,000.00
BUILDING	5,50,00,000.00
MACHINERY & EQUIPMENTS	15,00,00,000.00
OTHER	1,00,00,000.00
TOTAL	**22,00,00,000.00**

CHAPTER III : MEANS OF FINANCE

Table: Means of Finance

Particulars	Amount	Share (%)
Equity	6,60,00,000.00	30
Debt	15,40,00,000.00	70
Total	**22,00,00,000.00**	**100**

WORKING CAPITAL FINANCE (C.C.) -

PROJECT REPORT OF
M/S.SIDDHI ENTERPRISES

Annexure A : Projected Revenue Sheet

A) BIOFUEL BRIQUETTES

Output Capacity Of the Ma 15,000.00 Unit*/Mth/Machinery

Utilisation Of Capacity	Output/ Month
50% Utilisation	7,500.00 unit/Mth

Output Of Finished Goods At The Level Of 50 %	Per Mth		Rate*	Total Amt.	Total IN KG.	Total Revenue Generation
BIOFUEL BRIQUETTES	12,000.00	Unit	700.00	84,00,000.00	40.00	33,60,00,000.00
					TOTAL	**33,60,00,000.00**

B) Lateral Pipe (Excisable Goods)

Output Capacity Of the Machine: Kgs/Mth/Machinery

Utilisation Of Capacity	Output/ Month
50% Utilisation	0.00 Kgs/Mth

Output Of Finished Goods At The Level Of 50 %	Per Mth		Rate*	Total Amt.	Total Mts	Total Revenue Generation
BIOFUEL BRIQUETTES	0.00	Kgs.	14.00	0.00	12.00	0.00
					TOTAL	**0.00**

C) Laterl Tude (Non Excisable Goods)

Output Capacity Of the Machine: Mtr/Mth/Machinery

Utilisation Of Capacity	Output/ Month
50% Utilisation	0.00 Mtr/Mth

Output Of Finished Goods At The Level Of 50 %	Per Mth		Rate*	Total Amt.	Total Mts	Total Revenue Generation
Lateral Tube	0.00	Kgs.	4.00	0.00	0.00	0.00
					TOTAL	**0.00**

M/S SHIDDHI ENTERPRISES

ANNEXURE B:- PROJECTED PROFITABILITY STATEMENT

YEARS	YR 1	YR 2	YR 3	YR 4	YR 5
CAPACITY UTILIZATION	**50%**	**60%**	**70%**	**80%**	**90%**

INCOME

INCOME						
1	Sale of BIOFUEL BRIQUETTES	33,60,00,000.00	40,32,00,000.00	47,04,00,000.00	53,76,00,000.00	60,48,00,000.00
TOTAL (A)		**33,60,00,000.00**	**40,32,00,000.00**	**47,04,00,000.00**	**53,76,00,000.00**	**60,48,00,000.00**
	EXPENDITURE					
1	Raw Material	10,08,00,000.00	12,09,60,000.00	14,11,20,000.00	16,12,80,000.00	18,14,40,000.00
2	Power & Fuel	8,00,000.00	9,60,000.00	11,20,000.00	14,40,000.00	18,00,000.00
3	Factory Overhead & Admin Exp.	1,00,000.00	1,20,000.00	1,40,000.00	1,60,000.00	1,80,000.00
4	Interest on Finance	1,85,53,238.09	2,05,95,918.43	2,26,48,094.46	2,49,53,678.48	2,75,43,961.95
5	Salary	6,24,000.00	7,48,800.00	8,73,600.00	9,98,400.00	11,23,200.00
6	Administrative Exepnses	5,00,000.00	6,00,000.00	7,00,000.00	8,00,000.00	9,00,000.00
7	Selling & Distribution Expenses	3,00,000.00	3,60,000.00	4,20,000.00	4,80,000.00	9,00,000.00
8	Depreciation	12,16,77,238.09	14,43,44,718.43	16,70,21,694.46	19,01,12,078.48	21,38,87,161.95
TOTAL (B)		**24,33,54,476.19**	**28,86,89,436.86**	**33,40,43,388.92**	**38,02,24,156.96**	**42,77,74,323.91**
NET CREDIT [A-B]		9,26,45,523.81	11,45,10,563.14	13,63,56,611.08	15,73,75,843.04	17,70,25,676.09
Opening stock		-	8,00,000.00	15,60,000.00	25,20,000.00	30,40,000.00
Closing stock		8,00,000.00	15,60,000.00	25,20,000.00	30,40,000.00	33,60,000.00
Stock adjustment		8,00,000.00	7,60,000.00	9,60,000.00	5,20,000.00	3,20,000.00
Profit before Taxation		9,34,45,523.81	11,52,70,563.14	13,73,16,611.08	15,78,95,843.04	17,73,45,676.09
Provision for Taxation		2,80,33,657.14	3,45,81,168.94	4,11,94,983.32	4,73,68,752.91	5,32,03,702.83
Profit after Taxation		**6,54,11,866.67**	**8,06,89,394.20**	**9,61,21,627.76**	**11,05,27,090.13**	**12,41,41,973.26**
Bal carried over to Balance Sheet		**6,54,11,866.67**	**14,61,01,260.87**	**24,22,22,888.62**	**35,27,49,978.76**	**47,68,91,952.02**

PROJECT REPORT OF

M/S SHIDDHI ENTERPRISES

SCHEDULE I: Man Power Resources

Salaries & Wages	No.	Salary PM	Months	Salary
Manager	1	12000	12	144000.00
Supervisior	1	8000	12	96000.00
Skilled Labour	4	8000	12	384000.00
Unskilled Labour	4	5000	12	240000.00
	10			**624000.00**

M/S SHIDDHI ENTERPRISES

ANNEXURE C:- PROJECTED BALANCE SHEET

YEARS	YR 1	YR 2	YR 3	YR 4	YR 5
LIABILITIES					
Capital	6,58,00,000.00	6,57,60,000.00	6,57,20,000.00	6,56,80,000.00	6,56,40,000.00
Reseve & Surplus	6,54,11,866.67	14,61,01,260.87	24,22,22,888.62	35,27,49,978.76	47,68,91,952.02
Term Loan	16,85,76,474.09	18,51,95,628.52	20,38,66,958.98	22,48,43,873.46	24,84,11,057.11
Cash Credit	-	-	-	-	-
Unsecured Loan	-	-	-	-	-
Tax Provision	2,80,33,657.14	3,45,81,168.94	4,11,94,983.32	4,73,68,752.91	5,32,03,702.83
TOTAL	**32,78,21,997.91**	**43,16,38,058.33**	**55,30,04,830.93**	**1,31,24,64,887.17**	**84,41,46,711.96**
ASSETS					
Net Fixed Assets (W	32,78,21,997.91	32,78,21,997.91	32,78,21,997.91	32,78,21,997.91	32,78,21,997.91
Stock of W.I.P. & F	8,00,000.00	15,60,000.00	25,20,000.00	30,40,000.00	33,60,000.00
Advance & Deposit	8,00,000.00	2,50,000.00	2,50,000.00	2,50,000.00	2,50,000.00
Debtors	42,00,000.00	58,80,000.00	79,80,000.00	1,04,58,000.00	1,19,70,000.00
Net Current Assets *	14,65,898.00	13,19,308.20	11,72,718.40	10,26,128.60	19,05,667.40
Cash & Bank Bal.	(72,65,898.00)	23,91,51,470.66	52,46,26,527.51	1,61,34,56,762.79	1,97,81,36,492.78
TOTAL	**32,78,21,997.91**	**57,59,82,776.76**	**86,43,71,243.82**	**1,95,60,52,889.30**	**2,32,34,44,158.08**

** Including Capital Work in Progress, Advance Payment of Taxes & other advances to Staffs & Suppliers, Modvat balance of Vat.

-	(14,43,44,718.43)	(31,13,66,412.89)	(64,35,88,002.13)	(1,47,92,97,446.12)

M/S SHIDDHI ENTERPRISES

ANNEXURE D:- PROJECTED CAPITAL ACCOUNT

YEARS	YR 1	YR 2	YR 3	YR 4	YR 5
LIABILITIES					
Capital	6,60,00,000.00	6,60,00,000.00	6,60,00,000.00	6,60,00,000.00	6,60,00,000.00
Less: Drawing	(2,00,000.00)	(2,40,000.00)	(2,80,000.00)	(3,20,000.00)	(3,60,000.00)
TOTAL	**6,58,00,000.00**	**6,57,60,000.00**	**6,57,20,000.00**	**6,56,80,000.00**	**6,56,40,000.00**

M/S. SUMAN POLY PLAST

ANNEXURE E- PROJECTED FIXED ASSETS & DEPRECIATION SCHEDULE

PARTICULARS	Building A/c	Furniture A/c	Machinery & Equipments	Land & Land Development	TOTAL
Rate Of Deprec	10.00%	10.00%	15.00%	0.00%	
Value Of Asset					
Including Contg	5,50,00,000.00	1,00,00,000.00	15,00,00,000.00	15,00,00,000.00	43,00,00,000.00
Dep, 1St Yr	**55,00,000.00**	**10,00,000.00**	**2,25,00,000.00**	**-**	**3,45,00,000.00**
Value After Dep	4,95,00,000.00	90,00,000.00	12,75,00,000.00	15,00,00,000.00	39,55,00,000.00
Dep. 2Nd Yr.	**49,50,000.00**	**9,00,000.00**	**1,91,25,000.00**	**-**	**2,99,25,000.00**
Value After Dep	4,45,50,000.00	81,00,000.00	10,83,75,000.00	15,00,00,000.00	36,55,75,000.00
Dep.3Rd Yr.	**44,55,000.00**	**8,10,000.00**	**1,62,56,250.00**	**-**	**2,59,76,250.00**
Value After Dep	4,00,95,000.00	72,90,000.00	9,21,18,750.00	15,00,00,000.00	33,95,98,750.00
Dep.4Th Yr.	**40,09,500.00**	**7,29,000.00**	**1,38,17,812.50**	**-**	**1,85,56,312.50**
Value After Dep	3,60,85,500.00	65,61,000.00	7,83,00,937.50	15,00,00,000.00	32,10,42,437.50

	Dep.5Th Yr.	**36,08,550.00**	**6,56,100.00**	**1,17,45,140.63**	**-**	**1,60,09,790.63**
	Value After Dep	3,24,76,950.00	59,04,900.00	6,65,55,796.88	15,00,00,000.00	30,50,32,646.88

ANNEXURE F:- PROJECTED CASH FLOW STATEMENT

YEARS	YR 1	YR 2	YR 3	YR 4	YR 5
SOURCES					
PBIT	11,19,98,761.91	13,58,66,481.57	15,99,64,705.54	18,28,49,521.52	20,48,89,638.05
Depreciation	12,16,77,238.09	14,43,44,718.43	16,70,21,694.46	19,01,12,078.48	21,38,87,161.95
Increase in Capital	6,58,00,000.00	(40,000.00)	(40,000.00)	(40,000.00)	(40,000.00)
Increase in Term Loan	16,85,76,474.09	1,66,19,154.43	1,86,71,330.46	2,09,76,914.48	2,35,67,183.65
Increase in Cash Credi	-	-	-	-	-
Increase in Unsecured	-				
Decrease in Current A	(14,65,898.00)	1,46,589.80	1,46,589.80	1,46,589.80	(8,79,538.80)
Decrease in Sundry De	(42,00,000.00)	(16,80,000.00)	(21,00,000.00)	(24,78,000.00)	(15,12,000.00)
Decrease in Advance &	(8,00,000.00)	5,50,000.00	-	-	-
Provisions	2,80,33,657.14	3,45,81,168.94	4,11,94,983.32	4,73,68,752.91	5,32,03,702.83
Decrease in Stock	(8,00,000.00)	(7,60,000.00)	(9,60,000.00)	(5,20,000.00)	(3,20,000.00)
TOTAL [A]	**48,88,20,233.24**	**32,96,28,113.17**	**38,38,99,303.58**	**1,20,23,47,649.99**	**49,27,96,147.68**
APPLICATION					
Increase in Fixed Asse	44,94,99,236.00	-	-	-	-
Interest on Loan	1,85,53,238.09	2,05,95,918.43	2,26,48,094.46	2,49,53,678.48	2,75,43,961.95
Income Tax	2,80,33,657.14	6,26,14,826.09	7,57,76,152.27	8,85,63,736.24	10,05,72,455.74
Dividend	-	-	-	-	-
TOTAL [B]	**49,60,86,131.24**	**8,32,10,744.51**	**9,84,24,246.73**	**11,35,17,414.72**	**12,81,16,417.69**
Opening Cash & Bank	-	(72,65,898.00)	23,91,51,470.66	52,46,26,527.51	1,61,34,56,762.79
Net Surplus / Deficit [A	(72,65,898.00)	24,64,17,368.66	28,54,75,056.86	1,08,88,30,235.28	36,46,79,729.99
Closing Cash & Bank	**(72,65,898.00)**	**23,91,51,470.66**	**52,46,26,527.51**	**1,61,34,56,762.79**	**1,97,81,36,492.78**

ANNEXURE G:- PROJECTED REPAYMENT SCHEDULE

Year	Opening Balance	Principal Repayment	Interest @ 10% p.a	Instalment	Ending Balance
Yr I					
1	15,40,00,000.00	(9,51,936.33)	12,83,333.33	3,31,397.00	15,49,51,936.33
2	15,49,51,936.33	(11,79,384.38)	15,10,781.38	3,31,397.00	15,61,31,320.71
3	15,61,31,320.71	(11,90,883.38)	15,22,280.38	3,31,397.00	15,73,22,204.09
4	15,73,22,204.09	(12,02,494.49)	15,33,891.49	3,31,397.00	15,85,24,698.58
5	15,85,24,698.58	(12,14,218.81)	15,45,615.81	3,31,397.00	15,97,38,917.39
6	15,97,38,917.39	(12,26,057.44)	15,57,454.44	3,31,397.00	16,09,64,974.84
7	16,09,64,974.84	(12,38,011.50)	15,69,408.50	3,31,397.00	16,22,02,986.34
8	16,22,02,986.34	(12,50,082.12)	15,81,479.12	3,31,397.00	16,34,53,068.46
9	16,34,53,068.46	(12,62,270.42)	15,93,667.42	3,31,397.00	16,47,15,338.87
10	16,47,15,338.87	(12,74,577.55)	16,05,974.55	3,31,397.00	16,59,89,916.43
11	16,59,89,916.43	(12,87,004.69)	16,18,401.69	3,31,397.00	16,72,76,921.11
12	16,72,76,921.11	(12,99,552.98)	16,30,949.98	3,31,397.00	16,85,76,474.09
	TOTAL	(1,45,76,474.09)	1,85,53,238.09	39,76,764.00	
Yr II					
13	16,85,76,474.09	(13,12,223.62)	16,43,620.62	3,31,397.00	16,98,88,697.72
14	16,98,88,697.72	(13,25,017.80)	16,56,414.80	3,31,397.00	17,12,13,715.52
15	17,12,13,715.52	(13,37,936.73)	16,69,333.73	3,31,397.00	17,25,51,652.25
16	17,25,51,652.25	(13,50,981.61)	16,82,378.61	3,31,397.00	17,39,02,633.85
17	17,39,02,633.85	(13,64,153.68)	16,95,550.68	3,31,397.00	17,52,66,787.54
18	17,52,66,787.54	(13,77,454.18)	17,08,851.18	3,31,397.00	17,66,44,241.71
19	17,66,44,241.71	(13,90,884.36)	17,22,281.36	3,31,397.00	17,80,35,126.07
20	17,80,35,126.07	(14,04,445.48)	17,35,842.48	3,31,397.00	17,94,39,571.55
21	17,94,39,571.55	(14,18,138.82)	17,49,535.82	3,31,397.00	18,08,57,710.37
22	18,08,57,710.37	(14,31,965.68)	17,63,362.68	3,31,397.00	18,22,89,676.05
23	18,22,89,676.05	(14,45,927.34)	17,77,324.34	3,31,397.00	18,37,35,603.39
24	18,37,35,603.39	(14,60,025.13)	17,91,422.13	3,31,397.00	18,51,95,628.52
	TOTAL	(1,66,19,154.43)	2,05,95,918.43	39,76,764.00	
Yr III					
25	18,51,95,628.52	(14,74,260.38)	18,05,657.38	3,31,397.00	18,66,69,888.90
26	18,66,69,888.90	(14,88,634.42)	18,20,031.42	3,31,397.00	18,81,58,523.32
27	18,81,58,523.32	(15,03,148.60)	18,34,545.60	3,31,397.00	18,96,61,671.92
28	18,96,61,671.92	(15,17,804.30)	18,49,201.30	3,31,397.00	19,11,79,476.22
29	19,11,79,476.22	(15,32,602.89)	18,63,999.89	3,31,397.00	19,27,12,079.11
30	19,27,12,079.11	(15,47,545.77)	18,78,942.77	3,31,397.00	19,42,59,624.89
31	19,42,59,624.89	(15,62,634.34)	18,94,031.34	3,31,397.00	19,58,22,259.23
32	19,58,22,259.23	(15,77,870.03)	19,09,267.03	3,31,397.00	19,74,00,129.26
33	19,74,00,129.26	(15,93,254.26)	19,24,651.26	3,31,397.00	19,89,93,383.52
34	19,89,93,383.52	(16,08,788.49)	19,40,185.49	3,31,397.00	20,06,02,172.01
35	20,06,02,172.01	(16,24,474.18)	19,55,871.18	3,31,397.00	20,22,26,646.18
36	20,22,26,646.18	(16,40,312.80)	19,71,709.80	3,31,397.00	20,38,66,958.98
	TOTAL	**(1,86,71,330.46)**	**2,26,48,094.46**	**39,76,764.00**	
Yr IV					

37	20,38,66,958.98	(16,56,305.85)	19,87,702.85	3,31,397.00	20,55,23,264.83
38	20,55,23,264.83	(16,72,454.83)	20,03,851.83	3,31,397.00	20,71,95,719.66
39	20,71,95,719.66	(16,88,761.27)	20,20,158.27	3,31,397.00	20,88,84,480.93
40	20,88,84,480.93	(17,05,226.69)	20,36,623.69	3,31,397.00	21,05,89,707.62
41	21,05,89,707.62	(17,21,852.65)	20,53,249.65	3,31,397.00	21,23,11,560.27
42	21,23,11,560.27	(17,38,640.71)	20,70,037.71	3,31,397.00	21,40,50,200.98
43	21,40,50,200.98	(17,55,592.46)	20,86,989.46	3,31,397.00	21,58,05,793.44
44	21,58,05,793.44	(17,72,709.49)	21,04,106.49	3,31,397.00	21,75,78,502.93
45	21,75,78,502.93	(17,89,993.40)	21,21,390.40	3,31,397.00	21,93,68,496.33
46	21,93,68,496.33	(18,07,445.84)	21,38,842.84	3,31,397.00	22,11,75,942.17
47	22,11,75,942.17	(18,25,068.44)	21,56,465.44	3,31,397.00	22,30,01,010.61
48	22,30,01,010.61	(18,42,862.85)	21,74,259.85	3,31,397.00	22,48,43,873.46
	TOTAL	**(2,09,76,914.48)**	**2,49,53,678.48**	**39,76,764.00**	
Yr V					
49	22,48,43,873.46	(18,60,830.77)	21,92,227.77	3,31,397.00	22,67,04,704.23
50	22,67,04,704.23	(18,78,973.87)	22,10,370.87	3,31,397.00	22,85,83,678.09
51	22,85,83,678.09	(18,97,293.86)	22,28,690.86	3,31,397.00	23,04,80,971.95
52	23,04,80,971.95	(19,15,792.48)	22,47,189.48	3,31,397.00	23,23,96,764.43
53	23,23,96,764.43	(19,34,471.45)	22,65,868.45	3,31,397.00	23,43,31,235.88
54	23,43,31,235.88	(19,53,332.55)	22,84,729.55	3,31,397.00	23,62,84,568.43
55	23,62,84,568.43	(19,72,377.54)	23,03,774.54	3,31,397.00	23,82,56,945.98
56	23,82,56,945.98	(19,91,608.22)	23,23,005.22	3,31,397.00	24,02,48,554.20
57	24,02,48,554.20	(20,11,026.40)	23,42,423.40	3,31,397.00	24,22,59,580.60
58	24,22,59,580.60	(20,30,633.91)	23,62,030.91	3,31,397.00	24,42,90,214.51
59	24,42,90,214.51	(20,50,432.59)	23,81,829.59	3,31,397.00	24,63,40,647.11
60	24,63,40,647.11	(20,70,410.01)	24,01,821.31	3,31,411.69	24,84,11,057.11
	TOTAL	**(2,35,67,183.65)**	**2,75,43,961.95**	**39,76,778.69**	

M/S SHIDDHI ENTERPRISES

ANNEXURE H : CALCULATION OF INTEREST ON TERM LOAN & CASH CREDIT

YEAR	YR 1	YR 2	YR 3	YR 4	YR 5
TERM LOAN INTEREST	1,85,53,238.09	2,05,95,918.43	2,26,48,094.46	2,49,53,678.48	2,75,43,961.95
CASH CREDIT INTEREST	-	-	-	-	-
UNSECURED LOAN INTI	-	-	-	-	-
TOTAL INTEREST	**1,85,53,238.09**	**2,05,95,918.43**	**2,26,48,094.46**	**2,49,53,678.48**	**2,75,43,961.95**

No 1 Repayment term has been considered to be in 13 equal half yearly instalments.

2 Term Loan Interest has been considered @ 11.70 % p.a.

3 Cash Credit Interest has been considered @ 16.00 % p.a.

M/S SHIDDHI ENTERPRISES

ANNEXURE I :- PROJECTED RATIO ANALYSIS

PARTICULARS	YR 1	YR 2	YR 3	YR 4	YR 5
NET PROFIT (PAT)	6,54,11,866.67	8,06,89,394.20	9,61,21,627.76	11,05,27,090.13	12,41,41,973.26
INTEREST ON TERM LO.	1,85,53,238.09	2,05,95,918.43	2,26,48,094.46	2,49,53,678.48	2,75,43,961.95
INTEREST ON CASH CRI	-	-	-	-	-
INTEREST ON UNSECUR	-	-	-	-	-
PROVISION OF TAXATIC	2,80,33,657.14	3,45,81,168.94	4,11,94,983.32	4,73,68,752.91	5,32,03,702.83
TOTAL (X) (PBIT)	**11,19,98,761.91**	**13,58,66,481.57**	**15,99,64,705.54**	**18,28,49,521.52**	**20,48,89,638.05**
INTREST ON TERM LOA	1,85,53,238.09	2,05,95,918.43	2,26,48,094.46	2,49,53,678.48	2,75,43,961.95
INTREST ON CASH CREI	-	-	-	-	-
TOTAL (Y)	**1,85,53,238.09**	**2,05,95,918.43**	**2,26,48,094.46**	**2,49,53,678.48**	**2,75,43,961.95**
INTREST SERIVCE CO' RATIO (X/Y)	**6.04**	**6.60**	**7.06**	**7.33**	**7.44**
NET PROFIT	6,54,11,867	8,06,89,394	9,61,21,628	11,05,27,090	12,41,41,973
SALES	33,60,00,000	40,32,00,000	47,04,00,000	53,76,00,000	60,48,00,000
NET PROFIT/ SALES (%	**19.47**	**20.01**	**20.43**	**20.56**	**20.53**
PBIT	11,19,98,761.91	13,58,66,481.57	15,99,64,705.54	18,28,49,521.52	20,48,89,638.05
DEPRECIATION	12,16,77,238.09	14,43,44,718.43	16,70,21,694.46	19,01,12,078.48	21,38,87,161.95
PBDIT	23,36,76,000.00	28,02,11,200.00	32,69,86,400.00	37,29,61,600.00	41,87,76,800.00
TOTAL ASSETS	**32,78,21,998**	**57,59,82,777**	**86,43,71,244**	**1,95,60,52,889**	**2,32,34,44,158**
I.S.C.R.	**0.71**	**0.49**	**0.38**	**0.19**	**0.18**
NET SALES (O)	**33,60,00,000**	**40,32,00,000**	**47,04,00,000**	**53,76,00,000**	**60,48,00,000**
TERM LOAN	16,85,76,474	18,51,95,629	20,38,66,959	22,48,43,873	24,84,11,057
CASH CREDIT	-	-	-	-	-
TOTAL BANK BORROV	**16,85,76,474**	**18,51,95,629**	**20,38,66,959**	**22,48,43,873**	**24,84,11,057**
NET SALES/ BANK BOR	**1.99**	**2.2**	**2.3**	**2.4**	**2.4**
NET SALES (O)	**33,60,00,000**	**40,32,00,000**	**47,04,00,000**	**53,76,00,000**	**60,48,00,000**
DEBTORS	42,00,000	58,80,000	79,80,000	1,04,58,000	1,19,70,000
DEBTORS TURNOVER I	**4.56**	**5.32**	**6.19**	**7.10**	**7.22**
NET SALES (O)	**33,60,00,000**	**40,32,00,000**	**47,04,00,000**	**53,76,00,000**	**60,48,00,000**
AVERAGE INVENTORY	4,00,000	11,80,000	20,40,000	27,80,000	32,00,000
STOCK TURNOVER RA	**0.43**	**1.07**	**1.58**	**1.89**	**1.93**

ANNEXURE J :- PROJECTED DSCR RATIO

YEARS		YR 1	YR 2	YR 3	YR 4	YR 5
A.	Net Profit after Tax	6,54,11,866.67	8,06,89,394.20	9,61,21,627.76	11,05,27,090.13	12,41,41,973.26
B.	Depreciation	12,16,77,238.09	14,43,44,718.43	16,70,21,694.46	19,01,12,078.48	21,38,87,161.95
C.	Interest on Term Loan	1,85,53,238.09	2,05,95,918.43	2,26,48,094.46	2,49,53,678.48	2,75,43,961.95
D.	Interest on Cash Credit	-	-	-	-	-
E.	Interest on Unsecured Loan	-	-	-	-	-
TOTAL [X]		**20,56,42,342.86**	**24,56,30,031.06**	**28,57,91,416.68**	**32,55,92,847.09**	**36,55,73,097.17**
E.	Instalment of Term Loan	39,76,764.00	39,76,764.00	39,76,764.00	39,76,764.00	39,76,778.69
F.	Interest on Term Loan	1,85,53,238.09	2,05,95,918.43	2,26,48,094.46	2,49,53,678.48	2,75,43,961.95
TOTAL [Y]		**2,25,30,002.09**	**2,45,72,682.43**	**2,66,24,858.46**	**2,89,30,442.48**	**3,15,20,740.64**
DSCR = [X] / [Y]		**9.13**	**10.00**	**10.73**	**11.25**	**11.60**

AVERAGE DSCR = 3.51